

AMENDMENTS TO THE CLAIMS:

1. (currently amended) A process for oxidizing nitric oxide comprising:

a) providing a stream of nitric oxide;

b) providing a heated surface within said stream of nitric oxide;

c) providing a hydrogen peroxide solution; and

d) impinging said hydrogen peroxide solution onto said heated surface, whereby said hydrogen peroxide solution is decomposed into a plurality of oxidative free radicals ~~which further oxidize said nitric oxide to form nitrogen dioxide; and~~

e) further oxidizing said nitric oxide to form nitrogen dioxide using said plurality of oxidative free radicals.

2. (original) The process of claim 1, wherein said hydrogen peroxide solution contains

50 wt.% or less hydrogen peroxide

3. (original) The process of claim 1, wherein said heated surface is heated to a temperature of 200-500°C.

4. (original) The process of claim 1, wherein said heated surface contains a catalytic coating.

5. (currently amended) The process of claim 4, wherein said catalytic coating contains an element selected from the group consisting of comprising iron, chromium, copper, platinum, silver and palladium.

6. (currently amended) The process of claim 4, wherein said catalytic coating contains an oxide selected from the group consisting of comprising silver oxide, iron oxide, ruthenium oxide, glass, quartz, Mo glass, $Fe_{3-x}Mn_xO_4$ spinels, Fe_2O_3 with Cu ferrite, MgO and Al_2O_3

7. (original) The process of claim 1, wherein said stream of nitric oxide contains 50-350 ppm nitric oxide.

8. (currently amended) The process of claim 1, wherein said plurality of oxidative free radicals is selected from the group consisting of comprising hydroxyl radicals and hydroperoxyl radicals.

9. (original) The process of claim 1, further comprising the step of heating said hydrogen peroxide solution before impinging said hydrogen peroxide solution onto said heated surface.

10. (original) The process of claim 9, wherein said hydrogen peroxide solution is heated to a temperature of 140°C before impinging said hydrogen peroxide solution onto said heated surface.

Claims 11-20 (canceled)